

**Work Order ID 56675**

March 4, 2010 11:27:24 AM

Page 1

Item ID: D412-742-013

Accept

Setup Start

Revision ID:

Stop

Item Name: Float Skidtube Installation

Start Date: 3/12/10 Start Qty: 1.00

Cust Item ID:

Required Date: 3/15/10 Req'd Qty: 1.00

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	----------------	--------------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

IIN D412-742

D

100

0.00



DOCUMENT CONTROL

DC

Memo

0.00

Document Control

Photocopy bluefile and create labels per PPP D412-742-013 CHG006

S 10/04/27

HJ for CL 10/04/22

110

0.00



Pick Kit

Packaging

Memo

0.00

Packaging

C 10/4/22 (1)

120

0.00



QC4- 100% Inspect kits for completeness

QC

Memo

0.00

Quality Control

S 10/04/27

(P)

**Work Order ID 56675**

March 4, 2010 11:27:30 AM



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Item ID: D412-742-013

Accept



Setup Start



Revision ID:

Stop



Item Name: Float Skidtube Installation

Start Date: 3/12/10 Start Qty: 1.00



Cust Item ID:

Required Date: 3/15/10 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start



QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Draw Number	Draw Rev.	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130		0.00							
	Packaging								
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP D412-742-013 Location: <u>          </u>								
140		0.00							
	QC21- Final Inspection - Work Order Release								
QC	Memo	0.00							
Quality Control									

10-4-27-SP

MF

10-4-27

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Work Order ID: 56675

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Date: 3/12/10

Required Date: 3/15/10

Start Qty: 1.00

Required Qty: 1.00

AN4C7A

Purchased

No

110

Each

431.0000

4.0000

Bolt

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

431

109147

431

D412-742-043

Manufactured

No

110

Each

0.0000

1.0000

Replacement Float Skidtube

D2571

Manufactured

No

110

Each

22.0000

1.0000

Saddle, Fwd Out 205

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

14

11644

1

43564

3

47564

7

52910

3

Main Warehouse

ST433

8

54929

8

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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

S D2572  
  
 Saddle, Fwd In 205

Manufactured No 110 Each 12.0000 1.0000



57617

*[Handwritten signature]*

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST 12

43565 3

52908 9

S D2573  
  
 Saddle, Aft Out 205

Manufactured No 110 Each 25.0000 1.0000



*[Handwritten signature]*

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST 11

43566 3

44206 1

47566 7

Main Warehouse

ST434 14

52328 6

52911 8

52911

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
IPP Rev: B 06-06-08 As per DSI9336 JLM IPP Rev C 07-12-03 ECN  
1072 DD verified by: JLM  
IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

D2574  
Saddle, Aft In 205

Manufactured No 110 Each 18.0000

1.0000



Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST 2

43567 2

Main Warehouse

ST434 16

53463 8

56398 8

Manufactured No 110 Each

149.0000

2.0000



D2876  
Saddle Spacer

Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST028 102

42364 102

Main Warehouse

ST051 47

51540 47

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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**NOTE:** Date & initial all entries



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Work Order ID: 56675

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP Rev C 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Date: 3/12/10

Required Date: 3/15/10

Start Qty: 1.00

Required Qty: 1.00

D2877

Manufactured No

110

Each

80.0000

2.0000



Saddle Spacer

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST028

80

46518

1

47292

42

51541

37

D3403-1

Manufactured No

110

Each

45.0000

16.0000



Bushing

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

18

54237

5

56387

13

Main Warehouse

ST55

27

56387

27

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DS19336 JLM IPP Rev: C 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

D2747  
  
 Set Screw

Manufactured No

110 Each

229.0000 4.0000



## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST023

229

39224

4

43855

25

51921

200

Manufactured No

110 Each

168.0000 2.0000



D3533-1  
  
 Set Screw

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

168

51602

168

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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP Rev C 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN4C6A

Purchased

No

110

Each

611.0000

16.0000 *✓*



Bolt

*CV*

## Warehouse

## Loc Qty

## Loc Code

### Location

OFFSHORE

FG

4

103344

4

Main Warehouse

ST

607

111295

0

112759

25

112794

82

113121

500

*M/12799*

AN4C52A

Purchased

No

110

Each

184.0000

8.0000 *✓*



BOLT

*CV 10/4/10*

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

184

103914

19

112543

15

112641

50

113121

100

*M/2543*

*M/43121*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP Rev C 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN6C12A

Purchased No

110

Each

99.0000

8.0000



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

99

104289

1

110396

98

Manufactured No

110

Each

524.0000

32.0000

D3672-3



Phenolic Washer

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST117

24

51596

24

Main Warehouse

ST77

500

55560

500

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN960C416L

Purchased

No

110

Each

1,314.000 32.0000



WASHER

*Handwritten signature*

Warehouse  
Location

Loc Qty

Loc Code

OFFSHORE

FG

44

104925

44

Main Warehouse

ST

1270

111916

2

112612

368

112794

500

112828

400

*112612*

D3672-9

Manufactured

No

110

Each

491.0000 8.0000



Phenolic Washer

*Handwritten signature and date 3/14/12*

Warehouse  
Location

Loc Qty

Loc Code

Main Warehouse

ST

491

35523

491

*35523*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN  
 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN960C616L

Purchased

No

110

Each

250.0000

8.0000



WASHER



*[Handwritten signature]*

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

250

111424

50

113064

200

Manufactured

No

110

Each

39.0000

16.0000

D3672-11



Phenolic Washer



*1111424*

*355*

*3/14/10 (1)*

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

39

35524

39

*35524*

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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10

Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP Rev C 07-12-03 ECN  
 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

MS21043-4

Purchased No

110

Each

374.0000

29.0000



Nut

## Warehouse

## Loc Qty

## Loc Code

### Location

OFFSHORE

FG

40

104603

40

Main Warehouse

ST

334

112314

100

112492

11

113064

223

D3403-3

Manufactured No

110

Each

24.0000

8.0000



Bushing

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

24

52900

24

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Shop Packet Print

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A ☐ 05.10.13 ☐ New Issue ☐ KJ/JLM ☐  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

D3405-041

Manufactured No

110

Each

17.0000

1.0000



Lug Assembly

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

17

53887

17

D3405-043

Manufactured No

110

Each

8.0000

1.0000



Lug Assembly

Warehouse

Loc Qty

Loc Code

Location

Main Warehouse

ST

8

46589

1

46863

1

52324

1

53888

5

53887

*3/14/22*

53888

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN4C47A

Purchased

No

110

Each

110.0000

4.0000



Bolt

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

110

112489

2

112816

3

113164

5

113302

100

D3407-041

Manufactured

No

110

Each

12.0000

1.0000



Tow Ring

## Warehouse

## Loc Qty

## Loc Code

### Location

OFFSHORE

FG

3

35780

3

Main Warehouse

ST

3

48356

1

50755

2

Main Warehouse

ST464

6

55032

6

1113302

56F33

Philly 20

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

D3417-3  
  
 Washer

Manufactured No 110 Each 105.0000 2.0000



Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST	105
42176	2
44349	22
51648	28
53182	53

44349

D3456-1  
  
 Washer

Manufactured No 110 Each 172.0000 1.0000



Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST	172
51653	4
54692	168

51653

AN3C37A  
  
 BOLT

Purchased No 110 Each 84.0000 1.0000



Warehouse Loc Qty Loc Code  
Location

Main Warehouse

ST	84
112454	84

112454

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Page 30 14

Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN3C40A

Purchased

No

110

Each

84.0000

1.0000



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

84

106176

34

112454

50

m106176

AN3C41A

Purchased

No

110

Each

138.0000

1.0000



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

OFFSHORE

FG

4

103324

4

Main Warehouse

ST

134

112431

34

112829

100

m112431

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# Picklist Print

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Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN  
 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN3C42A

Purchased No

110

Each

132.0000 1.0000



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

132

106169

32

106176

100

110

Each

45.0000 4.0000

AN3C43A

Purchased

No



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

45

106227

2

106228

35

107457

8

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Shop Packet Print

Page 31

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
10-04-27		Install Weir plates per DST 9517-011	<i>[Signature]</i>	10-04-27	1	<i>[Signature]</i> 10-04-27	<i>[Signature]</i> 10-04-27

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



# Picklist Print

March 4, 2010 11:25:05 AM

Page 32 16

Work Order ID: 56675



Parent Item: D412-742-013



Parent Item Name: Float Skidtube Installation

Start Date: 3/12/10

Required Date: 3/15/10

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN  
 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Qty: 1.00

Required Qty: 1.00

AN3C46A

Purchased No

110

Each

79.0000

5.0000



BOLT

## Warehouse

## Loc Qty

## Loc Code

### Location

Main Warehouse

ST

79

106169

5

106176

9

113164

22

113302

43

AN960C10L 25017

Purchased No

110

Each

388.0000

26.0000



washer

N051149 CO 332R

## Warehouse

## Loc Qty

## Loc Code

### Location

OFFSHORE

FG

100

103585

100

Main Warehouse

ST

288

112116

128

112612

160

March 4, 2010 11:25:05 AM

Shop Packet Print

Page 32

# Picklist Print

March 4, 2010 11:25:10 AM

Page 33

Work Order ID: 56675

Parent Item: D412-742-013

Parent Item Name: Float Skidtube Installation

Comments: IPP Rev: A 05.10.13 New Issue KJ/JLM  
 IPP Rev: B 06-06-08 As per DSI9336 JLM IPP RevC 07-12-03 ECN 1072 DD verified by: JLM  
 IPP Rev: D 08-09-08 ecn 08-510 DD verified by: EC

Start Date: 3/12/10

Required Date: 3/15/10

Start Qty: 1.00

Required Qty: 1.00

MS21043-3

Purchased

No

110

Each

4,196.000 13.0000

Nut

Warehouse  
Location

Loc Qty

Loc Code

OFFSHORE

FG

80

103691

80

Main Warehouse

ST

4116

111819

70

112243

29

112314

4017

7/12319

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Shop Packet Print

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## 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

Item	Qty -013	Qty -043	Part Number	Description
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE
		1	D3391-043	412 FLOAT SKIDTUBE
1		*24	*AN3C4A	*BOLT
3		*12	*AN3C6A	*BOLT
4		*8	*AN3C7A	*BOLT
5		*44	*AN960C10L	*WASHER
21A		*1	*D3564-1	*WEARSHOE (REPLACES D3460-1)
21B		*1	*D3566-1	*GASKET
22A		*1	*D3564-3	*WEARSHOE (REPLACES D3460-3)
22B		*1	*D3566-1	*GASKET
23A		*1	*D3564-5	*WEARSHOE (REPLACES D2577-5)
23B		*1	*D3566-5	*GASKET
10		*1	*D3391-021	*412 FORWARD TUBE
11		**1	**D3401-041	**TOW CAP
12A		**10	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB166)
12B		**2	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB166)
13		**10	**AN3C4A	**BOLT
14A		**4	**D3672-1	**WASHER (REPLACES NAS1515H3L)
14B		**10	**AN960C10L	**WASHER
24A		**1	**D3564-13	**WEARSHOE
24B		**1	**D3566-13	**GASKET
20		*1	*D3391-023	*412 MID TUBE
28		**20	**AELS-1032-130	**INSERT (REPLACES NAS1330S3KB116)
30		*1	*D3391-025	*412 AFT TUBE
25A		**1	*D3537-1	**WEARPAD
25B		**1	*D3553-1	**GASKET
26A		**1	*D3537-7	**WEARPAD
26B		**1	*D3553-3	**GASKET
31		**1	**D2646	**AFT CAP
32		**14	**AELS-1032-130	**INSERT
36		**12	**AELS-1032-225	**INSERT (REPLACES NAS1330S3KB366)
37A		**6	**AN3C4A	**BOLT
37B		**4	**AN3C5A	**BOLT
38A		**2	**D3672-1	**WASHER (REPLACES NAS1515H3L)
38B		**10	**AN960C10L	**WASHER

(CONTINUED ON PAGE 19)

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

(CONTINUED FROM PAGE 18)

Item	Qty -013	Qty -043	Part Number	Description
40	1		D2571	SADDLE, FWD OUTSIDE
41	1		D2572	SADDLE, FWD INSIDE
42	1		D2573	SADDLE, AFT OUTSIDE
43	1		D2574	SADDLE, AFT INSIDE
44	2		D2876	SADDLE SPACER
45	2		D2877	SADDLE SPACER
46	16		D3403-1	BUSHING
47A	4		D2747	SET SCREW
47B	2		D3533-1	SET SCREW
48	16		AN4C6A	BOLT
49	8		AN4C52A	BOLT
50	8		AN6C12A	BOLT
51A	32		D3672-3	WASHER (REPLACES NAS1515H4L)
51B	32		AN960C416L	WASHER
52A	8		D3672-9	WASHER (REPLACES NAS1515H6L)
52B	8		AN960C616L	WASHER
53	16		D3672-11	WASHER (REPLACES NAS1515H7L)
54	24		MS21043-4	NUT
55	4		ANC47A	BOLT
60	8		D3403-3	BUSHING
61	1		D3405-041	GHW LUG
62	1		D3405-043	GHW LUG
63	4		AN4C46A	BOLT DSI →
64	4		MS21043-4	NUT
70	1		D3407-041	TOW RING
71	2		D3417-3	WASHER
72	1		MS21043-4	NUT
73	1		D3456-1	WASHER
91	1		AN3C37A	BOLT
92	1		AN3C40A	BOLT
93	1		AN3C41A	BOLT
94	1		AN3C42A	BOLT
95	4		AN3C43A	BOLT
97	5		AN3C46A	BOLT
99	26		AN960C10L	WASHER
100	13		MS21043-3	NUT

\*DENOTES PART IS INCLUDED WITH D3391-043 ASSEMBLY ABOVE

\*\*DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-742 REV. D AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-742 REV. 3.

REF. FAA STC: SR01583SE  
REF. CANADIAN STC: SH05-37  
REF. EASA STC: EASA.IM.R.S.01126

**REFERENCE ONLY**

## INSTRUCTIONS:

- 1) FOR D412-742-011/-013 SKIDTUBES @ CHANGE 006 AND SUBSEQUENT, UPDATE THE PARTS LIST TO MODIFY THE BOLT USED TO ATTACH THE GHW LUG AS FOLLOWS:

### 5.1 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

### 32.15 D412-742-011 (PMA/OEM) Float Skidtube Installation Parts List

ITEM	Qty -011	Qty -041	Qty -015	PART NUMBER	DESCRIPTION
	X			D412-742-011	FLOAT SKIDTUBE INSTALLATION
	1	X		D412-742-041	FLOAT SKIDTUBE
	1		X	D412-742-015	ELECTRIC STEP KIT

IS:

63	4			AN4C47A	BOLT
----	---	--	--	---------	------

WAS:

63	4			AN4C46A	BOLT
----	---	--	--	---------	------

### 5.2 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

### 32.16 D412-742-013 (APICAL TRI-BAG) Float Skidtube Installation Parts List

ITEM	Qty -013	Qty 043	PART NUMBER	DESCRIPTION
	X		D412-742-013	FLOAT SKIDTUBE INSTALLATION
	1	X	D412-742-043	FLOAT SKIDTUBE

IS:

63	4			AN4C47A	BOLT
----	---	--	--	---------	------

WAS:

63	4			AN4C46A	BOLT
----	---	--	--	---------	------

A	NEW ISSUE	AJS	08.12.19
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS	<b>DART AEROSPACE USA, INC</b> PORT HADLOCK, WA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.	N/A	DSI 9441	SHEET 1 OF 1
APPROVED		TITLE	SCALE
DE APPR.		BOLT CHANGE	NTS
DATE	08.12.19	COPYRIGHT © 2008 BY DART AEROSPACE USA, INC THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries